From the INTERNATIONAL SEARCHIN	NG AUTHORITY	1	OCT .
То:		<b>7</b> . •	
VOSSIUS & PARTNER Siebertstrasse 4		NOTIFICATIO	N OF TRANSM TTAL OF
01/27F No. 1	FAMOE	T	TIONAL SEARCH REPORT HE DECLARATION
LCCOMANY LETTY CO	EGANGE	in	
		(F	PCT Rule 44.1)
] 11	8. Jan. 2001		
Frist	18::,		
bearb.:		Date of mailing	
	18:21/c	(cay/month/year) 18/0	1/2001
Applicant's or agent's file reference			
D 2398 PCT		FOR FURTHER ACTION	See paragraphs 1 and 4 below
International application No.		International filing date (cay/month/year)	
PCT/EP 00/05922	·	26/0	6/2000
Applicant			
UNIVERSITÄT ZÜRICH et al.			
1. X The applicant is hereby notified that t	the International Searc	ch Report has been established an	d is transmitted by any life
Filing of amendments and stateme	ent under Article 10.	•	*
The applicant is entitled, if he so wish	nes, to emend the claim	ms of the International Application	(see Rule 46):
When? The time limit for filing such	amend nents is norm	ally? months from the date of tran	smittal of the
menadoral Search Repon	t; nowever, for more d	etails, see the notes on the accom	panying sheet.
Where? Directly to the Internation	nal Bure au of WIPC		
1211 Gene	eva 20. Switzerland	_	
	No.: (41:-2:2) 740.14.3		
For more detailed instructions, see	the noise on the acci	ompenying sheet.	
2. The applicant is hereby notified that n Article 17(2)(a) to that effect is transm	o International Searc	h Report will be established and th	nat the declaration under
Andre 17(2)(a) to that effect is transm	inted norewith.		
3. With regard to the protest against of			a •
applicant's request to forward th	deciment thereon has been seen as the property	n transmitted to the international E test and the decision thereon to the	Bureau together with the
			o do sgratos Om Jos.
no decision has been made yet	on the protest; the app	olicant will be notified as soon as a	decision is made.
	• • •		
4. Further action(s): The applicant is remir			
Shortly after 18 months from the priority da  If the applicant wishes to avoid or postpon			
priority claim, must reach the international completion of the technical preparations for	I DUI ME DIOVICAT	IN HIMBE UNDIE 1 and ONLIG 7	ectively, before the
	- '		
Within 19 months from the priority date, a d wishes to postpone the entry into the natio	onal phuse until 30 mo	al preliminary examination must be onths from the priority date (in som	e filed if the applicant e Offices even later).
Within 20 months from the priority date, the	annicant must nerfor	m the prescribed acts for eath, I-4	- 11
before all designated Offices which have n priority date or could not be elected becau			hin 19 months from the
Name and mailing address of the International S		Aumorized fficer	
European Patent Office, P.B. 5618 NL-2280 HV Rijswijk		Mireille Claudepie	rre
Tel. (+31-70) 340-2040, Tx. 31 65 Fax: (+31-70) 340-3016	Tepori,		·

Form PCT/ISA/220 (July 1998)

## NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

## INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preiminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international phulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

## What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the civims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Exemining Authority.

Upon entry into the national phase, al-parts of the intermetional application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 menths from the data of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later: It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

### Where not to file the amendments?

The amendments may only be filed with the International Sureau and not with the receiving Office or the International Searching Authority (Ruth 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the te d of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabio numerals. Where a claim in cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The latter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

## NOTES TC: FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amondments must be explained in the accompanying letter:

- 1. [Where originally there were 48::laims and after an endment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 17 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15!:laims and after amendment of all claims there are 11]: \*Claims 1 to 15 replaced by amended plaims 1 to 1"."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7:to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claim; 19 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and open not replace the letter indicating the differences between the claims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a hearling, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connect on with an amendment of that claim.

## Consequence if a demand for international preliminary examination has already been filled

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the international Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filled.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Auplicant's Guide.

# PCT

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rule : 43 and 44)

Applicant's or agent's file reference D 2398 PCT	FOF FURTHER see Notification of (-orm PCT/ISA/2	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
nternational application No.	International filing date (day month/year)	(Earliest) Priority Date (day month/year)
PCT/EP 00/05922	26/06/2000	25/06/1939
Applicant		
JNIVERSITÄT ZÜRICH et al		
This International Search Report has be according to Article 18. A copy is being	een prepared by this International Searching Aut transmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report consist X It is also accompanied in	sts of a total of sheets.  by a copy of each prior art document cited in this	s report.
1. Basis of the report		
<ul> <li>With regard to the language, the language in which it was filed, to</li> </ul>	ne international search was carried out on the ba unless otherwise indicated under this item.	asis of the international application in the
Authority (Rule 23.1(b))	•	
was carried out on the basis of	and/or amin's acid sequence disclosed in the i the sequence listing : ational application in written form .	international application, the international search
	nternational application in computer readable for	m.
X furnished subsequently	to this Authority in written form	· Antonio Antonio (
	to this Authority in computer readble form.	
TX the statement that the s	subsequently furnished written sequence listing as filed has been furnished.	does not go beyond the disclosure in the
the statement that the furnished	ntormation recorded in computer readable form	is identical to the written sequi nce listing has been
2. X Certain claims were to	ound unsearchable (See Box I).	
3. Unity of invention is I		
4. With regard to the title,		
the text is approved as	submitted by the applicant.	
The text has been estat	olished by this Authority to read as follows:	
HETERO-ASSOCIATING C	OILED-COIL PEPTIDES AND SCRE	ENING METHOD THERE FOR
	•	
5. With regard to the abstract,	•	
the text is approved as	submitted by the applicant.	
within one month from	the date of mailing of this international search r	ority as it appears in Box III. The applicant may, eport, submit comments to this Authority.
6. The figure of the drawings to be p	ublished with the abstract is Figure No.	1
as suggested by the at	pplicant.	None of the figures.
X because the applicant	failed to suggest a figurë.	•
because this figure bet	ter characte:izes the invention.	

## INTERMINIONAL SEARCH REPORT

In pnal Application No.
PCT/EP 00/05922

	FICATION OF SUBJECT MATTER	/00 A61420/1-	
IPC 7	C12N15/10 G01N33/68 C07K14	/00 A61K38/17	
According I	n International Patent Classification (IPC) or to both national classification	fication and IPC	
	SEARCHED		
Minimum d	ocumentation searched (classification system tol:owed by classification sy	atio: symbols)	
110 /	CIZN GOIN CO/K AOIK		
Documenta	tion searched other than minimum documentation to the extent that	I su h documents are included in the fields se	arched
			:
Electronic o	lala base consulted during the International search (name of data I	basi and, where practical, search terms used)	
			·
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C DOCUM	ENTS CONSIDERED TO BE RELEVANT	<del></del>	
Category *	Citation of document, with indication, where assumpriate, of the r	alex ant passages	. Re avant to chain No.
	The state of the s	passages	Re evant to claim No.
Y /	WO 98 34120 A (PELLETIER JOELLE	N NA REMY	1-22
	INGRID (CA); UNIV MONTREAL (CA);		1-:2
	6 August 1998 (1998-08:-06)		
	cited in the application		•
	the whole document		
Υ	YU Y ET AL: "INVESTIGATION OF		1-22
./	ELECTROSTATIC INTERACTIONS IN TW		
	COILED-COILS THROUGH RISIDUE SHU		
	BIOPHYSICAL CHEMISTRY,AMSTERDAM, vol. 59, 16 April 1996:(1996-04-	Nl.,	
	299-314, XP000971324	rey, pages	
	cited in the application	***************************************	
	the whole document		
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ſ			i
X Furth	ner documents are listed in the continuation of box C.	Patent family members are listed in	n Annex,
* Special ca	tegories of cited documents:	* later document published after the inten	national fil no date
"A" docume	ent defining the general state of the art which is not ered to be of particular relevance	or priority date and not in conflict with the cited to understand the principle or the	he application but
"E" earlier o	locument but published on or after the international	Invention  ": " document of particular relevance; the cla	
filing d	nt which may throw doubts on prionty claim(s) c.r	cannot be considered novel or cannot i	be considered to
which i	is ched to establish the publication date of anoth or n or other special reason (as specified)	" document of particular relevance; the cir	almed invivillon
'O' docume	ent referring to an oral disclosure, use, exhibition or neans	cannot be considered to involve an Invidence of Control	e other such docu-
other means  "P" document published prior to the international filing date but later than the priority date claimed  "It is a pen on skilled in the art.  "It is a pen on skilled in the art.  "It is a pen on skilled in the art.  "It is a pen on skilled in the art.			
Date of the	actual completion of the international search	Date of mailing of the international seem	ch report
4	January 2001	18/01/2001	·
Name and m	nailing address of the ISA	Authorized officer	
	European Palent Office, P.B. 5818 Patentla-in : NL - 2280 HV Rijswijk	Addition officer	•
	Tel. (+31-70) 340-2040, Tx. 31 651 apo ni, Fax: (+31-70) 340-3016	Smalt, R	

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C.(Continua	STION) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to Jaim No.	
Category *	Chatlon of document, with Indication, where app. opriate, of the relevar I passages		Helevani to xaim 140.
A	ARNDT K M ET AL: "In-vivo selection of interacting peptide litraries by selectively-infective chages." FASEB JOURNAL, vol. 11, no. 9, 1997, page Al327 XP002156485		
	17th International Congress of Biochemistry and Molecular Biology in conjunction with the Annual Maeting of the American Society for B ochemistry and Molecular Biology; San Francisco, California, USA; Augus: 24-29, 1997 ISSN: 0892-6638 the whole document		
A J	O'SHEA E K ET AL: "PE'TIDE 'VELCEO*': DESIGN OF A HETERODIMERIC COILED (OIL" CURRENT BIOLOGY, GB, CURRENT SCIENCE,, vol. 3, no. 10, 1993, pages 658-667, XP000653001 ISSN: 0960-9822 cited in the application the whole document		
A	HODGES R S: "DE NOVO DESIGN OF ALPHA-HELICAL PROTEINS: BASIC RESEARCH TO MEDICALAPPLICATIONS" BIOCHEMISTRY AND CELL BIOLOGY. BIOCHIMIE ET BIOLOGIE CELLULAIRE,XX,XX;		
·	vol. 74, no2,1996, pages_133-154, XP000605834 ISSN: 0829-8211 cited in the application the whole document		
A	JOHN MATTHIAS ET AL: "Two pairs of oppositely charged amino acids from Jun and Fos confer heterocimerization to GCN4 leucine zipper."		
	JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 269, no. 23, 1994, pages 16247-16253, XP002156486 ISSN: 0021-9258 cited in the application the whole document		
A J	O'SHEA E K ET AL: "MF.CHANISM OF SPECIFICITY IN THE FO!:—JUN ONCOPROTEIN HETERODIMER" CELL, vol. 68, no. 4, 1992, pages 699-708, ypno2156487		
	XP002156487 ISSN: 0092-8674 cited in the applicat on the whole document		
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# INTERNATIONAL SEARCH REPORT

PCT/EP 00/0592.

C (Continu	polony POCCHARITY CO.	PCT/EP 00,	0592.
Category *	BRIDITY DOCUMENTS CONSIDERED TO BE RELEVANT		
<u> </u>	Citation of document, with Indication, where appropriate, of the relevant passages		Retevant to claim No.
P,X J	PELLETIER, J.N. ET AL.: "An in vivo library-versus-library selection of optimized protein-protein interactions."		1.19,22
	NATURE BIOTECHNOLOGY, vol. 17, July 1999 (1999-07), pages 683-90, XP002156488 the whole document		
P, X	ARNDT KATJA M ET AL: "A heterodimeric coiled-coil peptide pair selected in vivo from a designed library-versus-library ensemble."  JOURNAL OF MOLECULAR BIOLOGY,		1-19,22
	vol. 295, no. 3, 21 January 2000 (2000-)1-21), pages 627-639, XP002156489 ISSN: 0022-2836 the whole document		
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## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

#### Continuation of Box I.2

Present claim 8, and claims 10-13 and 15-22 in as far as they pertain to claim 8, relate to a polypeotide defined by reference to a desirable characteristic or property, namely that it can be obtained by the method of claim 7.

The claims cover all polypeotides having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such polypeptides. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the polypeptides comprising domains as defined in claims 5 and/or 6, and in the broader sense those that fall under the general fomulae of claim 1(a) and (b).

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



B x I Observations where certain claims wer found unsearchable (Continuation of Item 1 of first sheet)
This International Search Report has not been established in respect of pertain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: —  because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Sparch can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
as follows:
As all required additional search fees were timely paid by the applicant, this international Search Report cover: all searchable claims.
2. As all searchable daims could be searched althout affect to the search and a sea
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report
covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were time y hald by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees wire accompanied by the applicant's pritest.
No protest a companied the payment of additional search lees.
ட வையை விரும் விரும் இதி.

INTERNATIONAL SEARCH REPORT tional Application No on on petent family members /EP-00/05922-Patent document cited in search report **Publication** Patent family member(s) Publication cate dute WO 9834120 06-03-1998 2196496 A 5850598 A CA 31-17-1998 ΑU 25-18-1998 EP 0966685 A 29-12-1999

Form PCT/ISA/210 (patent family armox) (July 1882)